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WORK ATTACHIEFT A

Ι SPECIFICATIONS

Α. Video Amplifier (including pulse stretcher)

Cain: Approximately 85 db (100 uv rms input)

Bandwidth: 850 cps. to 450 kcs.

Power Consumption: 6.0 milliwatts Transistors Used: Four SB-100's

Input Impedance: Approximately 2000 ohms

Approximately 50 (nominal input) 1" x 1" x 2 3/4" (excluding lip) Pulse Stretch: Size:

Weight: 55 ozs.

Audio Amplifier

Gain: Approximately 40 db \pm 4 db. Bandwidth: Approximately 700 cps to 24 kcs.

Power Consumption: 15 milliwatts Transistors Used: Three 2N34's Input Impedance: 1 megohm Output Impedance: 30,000 ohms

Size: $1" \times 1" \times 2 3/4"$ (excluding lip)

Weight: 6 ozs.

C. Demand Unit

Circuit: Bi-stable multivibrator

PRF Response: 50 to 5000 pps

Sensitivity (trigger) 1.6 volts peak-to-peak (20°3)

Power Consumption: Standby - 40 milliwatts

Operating - 600 milliwatts Transistors Used: Two 2134's

 $1.7/8" \times 3.1/4" \times 3.5/8"$ (excluding lip) Size:

Weight: 1 lb. $11\frac{1}{2}$ ozs.

P. Recorder - Power Unit

Supply: 15 volts at 1 amp hr. rating

4.5 ma. Standby drain: Operating drain: 100 ma.

Consists of 10 Yardney IR-1 cells in series

Recorder: Minifon P-55L

> Power Consumption - Standby O milliwatts Operating 1000 milliwatts

Auxiliary - Power Unit:

Supply: 15 volts at 1 amp hr. rating

Standby drain - 4.5 milliamps Operating drain - 100 milliamps

Consists of 10 Yardney 'R-1 cells in Series

Terminal:

DPDF Relay Contact Output Audio output (unpolarized) common ground connection

Power Consumption:

Standby O milliwatts

Operating 1000 millivatts

GEMERAL REQUIREMENTS: II

- The video, audio and demand circuitry should be potted to insure rigidity of components. The recorder - power unit consists of the drive motor and transport mechanism of a P-55L minifon recorder (to be supplied by customer). Provision should also be made in this unit for aural monitoring by means of a crystal earphone.
- B. The auxiliary power unit provides the power and switching circuitry for the operation of the system into recorders other than the
- C. The system should also include a feature to permit its use with an external programming device. The capability should exist to enable
 - The external programmer and demand unit simultaneously. l.
 - Demand unit alone with the system.
 - Programmer alone with the system.
- The circuitry should be made such that under requirement (c-1) the programmer would plug into the demand unit and, by means of throwing the "on-off" switch to "off", control the energizing of the complete system. Under requirement (C-2) the system would operate under normal conditions, signal actuate, by means of throwing the switch to the "on" position. Under requirement (C-3) the demand unit could be put aside and the system controlled by the external programmer. This would necessitate plugging the programmer into the audio unit.

E. Finish:

All units comprising the complete system will be of a non-reflecting black finish and will not have any nomenclature or serial number designation on any surface.

F. Government furnished equipment:

P-55L minifon recorders

set of Engineering Drawings, including schematic diagrams,

(1) XTAL video demand system.

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Deliverable Items

(5) XTAL video demand systems.
One reproducible and 3 copies of the schematic diagram,
parts list, and manufacturing drawings of any unusual part



XTAL Video Demand Fystem

The following is a list of drawings that were given to the contractor:

- Dwg. No. 3 Mounting block, Demand Unit
 - 4 Mounting block, Demand Unit
 - 5 Plate, Demand Unit
 - 6 Plate, Demand Unit
 - 7 Plate, switch mounting, Demand Unit
 - 8 Cam, Demand Unit
 - 9 Spacer, Demand Unit
 - 10 Assembly View, Demand Unit
 - ll Mechanical assembly of Video Unit
 - 12 Case, Video Unit
 - 13 Cover, Video and Audio Units
 - 14 Shield
 - 15 Mechanical assembly of Audio Unit
 - 17 Case, Timer, Demand Unit
 - 16 Case, Audio Unit
 - 18 Cover, Timer, Demand Unit

Schematic Diagrams.

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